

WHAT IS CLAIMED IS:

1. A vehicle power cables retaining structure for retaining power cables, comprising:

power cables laid out along an underside of a floor of  
5 an electric vehicle, and

metallic protection pipes for passing the power cables individually therethrough, wherein

the metallic protection pipes are then retained on the underside of the floor of the vehicle.

10

2. A vehicle power cables retaining structure for retaining power cables, comprising:

power cables laid out along an underside of a floor of a hybrid vehicle which is driven to run by an engine and a motor;

15 metallic protection pipes; and

a flexible protection pipes, wherein

the power cables connect a power converter disposed outside an engine compartment with the motor disposed inside the engine compartment,

20 the power cables are individually passed through metallic protection pipes under the floor, and the metallic protection pipes are then supported from the underside of the floor, and

in the engine compartment, the power cables are passed through a flexible protection tube.

25

3. The vehicle power cables retaining structure as set forth in Claim 2, wherein

the protection tube includes an iron corrugated tube or an iron flexible tube having a net-like shield portion.

5

4. The vehicle power cables retaining structure as set forth in Claim 1, wherein

the protection pipe is formed by being bent after the power cable is passed therethrough.

10

5. The vehicle power cables retaining structure as set forth in Claim 1, wherein

the protection pipe is decreased in diameter by crimping an intermediate portion of the protection pipe along the length

15 thereof.

6. The vehicle power cables retaining structure as set forth in Claim 1, wherein

the protection pipe is divided into a plurality of protection pipes, the plurality of protection pipes so divided being connected to each other by an iron corrugated tube or an iron flexible tube having a net-like shield.

7. The vehicle power cables retaining structure as set forth in Claim 1, wherein

25

a refrigerant is allowed to flow through a gap formed between the protection pipe and the power cable.

8. The vehicle power cables retaining structure as set forth  
5 in Claim 7, further comprising:

a fin provided on at least either of an inner surface or an outer surface of the protection pipe in such a manner as to protrude therefrom.

10 9. The vehicle power cables retaining structure as set forth in Claim 8, wherein

the fin has a T-shaped cross section.

10. The vehicle power cables retaining structure as set forth  
15 in Claim 2, wherein

the protection pipe is formed by being bent after the power cable is passed therethrough.

11. The vehicle power cables retaining structure as set forth  
20 in Claim 2, wherein

the protection pipe is decreased in diameter by crimping an intermediate portion of the protection pipe along the length thereof.

12. The vehicle power cables retaining structure as set forth in Claim 2, wherein

the protection pipe is divided into a plurality of protection pipes, the plurality of protection pipes so divided  
5 being connected to each other by an iron corrugated tube or an iron flexible tube having a net-like shield.

13. The vehicle power cables retaining structure as set forth in Claim 2, wherein

10 a refrigerant is allowed to flow through a gap formed between the protection pipe and the power cable.

14. The vehicle power cables retaining structure as set forth in Claim 13, further comprising:

15 a fin provided on at least either of an inner surface or an outer surface of the protection pipe in such a manner as to protrude therefrom.

15. The vehicle power cables retaining structure as set forth  
20 in Claim 14, wherein

the fin has a T-shaped cross section.